

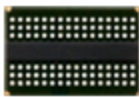
eMMC



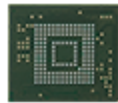
eMCP



ePoP



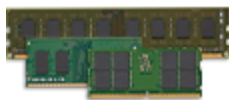
DRAM Components



UFS



Design-In SSD



Design-In DRAM Modules



Industrial microSD



Industrial SD

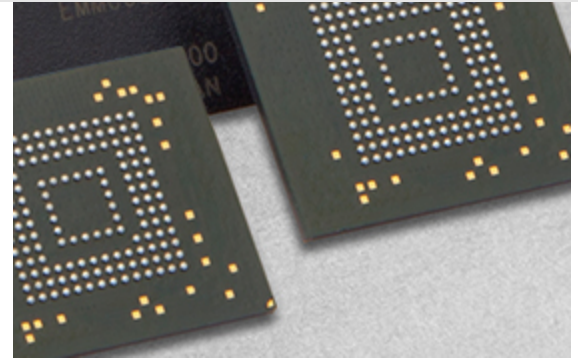
eMMC component - embedded multimedia card for device manufacturers

Kingston eMMC™ is an embedded, non-volatile memory system, comprised of both Flash memory and a Flash memory controller, which simplifies the application interface design and frees the host processor from low-level Flash memory management. eMMC is a popular storage component for many consumer electronic devices, including smartphones, tablets and Mobile Internet Devices. It is increasingly adopted





Small BGA package sizes and low power consumption make eMMC a viable, low-cost memory solution for mobile and embedded products. To better meet the requirement of many space-constrained wearable and IoT applications, Kingston has released the world’s smallest eMMC package with standard JEDEC footprint. The technology specifications of eMMC are managed by JEDEC, the global leader in developing open standards for the microelectronics industry.



Kingston I-Temp eMMC

Kingston® I-Temp eMMC™ Flash memory offers JEDEC eMMC5.1 features and is backward compatible with earlier eMMC standards. It has all the advantages of standard eMMC, plus the operating temperature range of the device meets industrial operating temperature requirements (-40°C~+85°C). This makes it an ideal storage solution for outdoor, surveillance, factory automation, transportation and other applications in fluid environmental conditions.

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eMMC part number and specifications

Part number	Capacity	eMMC standard	Package	NAND
EMMC04G-MT32	4GB	5.1 (HS400)	11.5x13x0.8	MLC
EMMC04G-CT32	4GB	5.1 (HS400)	9.0x7.5x0.8	MLC
EMMC08G-MV28	8GB	5.1 (HS400)	11.5x13x0.8	MLC
EMMC08G-CT32	8GB	5.1 (HS400)	9.0x7.5x0.8	MLC





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EMMC64G-TY29	64GB	5.1 (HS400)	11.5x13x0.8	3D TLC
EMMC128-TY29	128GB	5.1 (HS400)	11.5x13x0.8	3D TLC
EMMC256-TY29	256GB	5.1 (HS400)	11.5x13x1.0	3D TLC

I-Temp eMMC part number and specifications

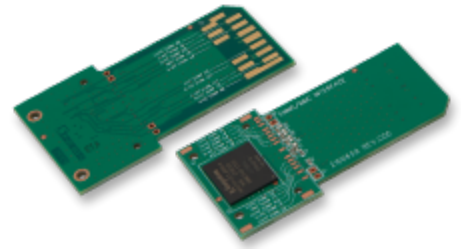
Part number	Capacity	eMMC standard	Package	NAND	Operating temperature
EMMC04G-WT32	4GB	5.1 (HS400)	11.5x13x0.8	MLC	-40°C~+85°C
EMMC08G-WV28	8GB	5.1 (HS400)	11.5x13x0.8	MLC	-40°C~+85°C
EMMC16G-WW28	16GB	5.1 (HS400)	11.5x13x0.9	3D TLC	-40°C~+85°C
EMMC32G-IX29	32GB	5.1 (HS400)	11.5x13x0.8	3D TLC	-40°C~+85°C
EMMC64G-IY29	64GB	5.1 (HS400)	11.5x13x0.8	3D TLC	-40°C~+85°C
EMMC128-IY29	128GB	5.1 (HS400)	11.5x13x0.8	3D TLC	-40°C~+85°C



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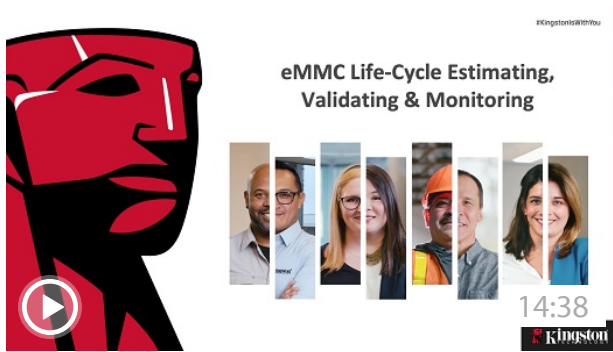
For designs that don't have an eMMC footprint laid out yet, these eMMC to SD/MMC adapters let users test eMMC through an SD/MMC slot without changing the PCB layout.



eMMC adapter part numbers

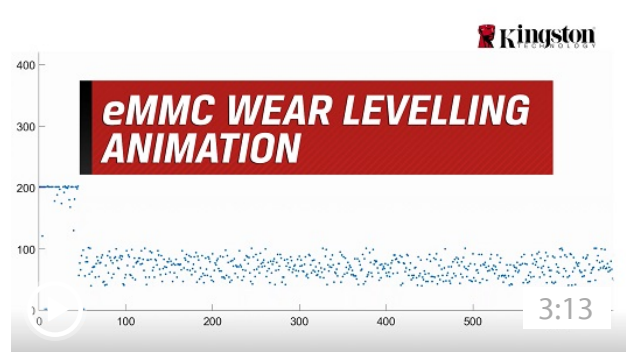
eMMC adapter parts are available for all capacities 4GB-256GB. Click [here](#) to request samples.

Related Videos



Estimating, validating & monitoring eMMC life cycle

It's important to understand how the NAND flash on eMMC is being managed in modern devices and how that relates to its life cycle. This guide will help designers and engineers understand how to estimate and validate the useable life of an eMMC storage device in their system design.



eMMC wear levelling

eMMC storage devices contain NAND blocks, which wear with consistent use. Wear levelling extends the life of eMMC devices by prioritising the use of 'younger' blocks for storage.





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